EFED FILE OPL

MRID No. 444577-76

DATA EVALUATION RECORD ALGAE OR DIATOM TIER I TEST GUIDELINE 122-2

PC Code No.: 112600 CHEMICAL: Prohexadione calcium 1.

Purity: 90.6% TEST MATERIAL: BAS 125 W

CITATION:

S.G. Thompson, J.P. Swigert, D.W. Authors:

Haughey, and J. Qiu

BAS 125 W: A 5-Day Toxicity Test with the Title:

Freshwater Alga (Selenastrum

capricornutum)

January 23, 1997 Study Completion Date:

Wildlife International Ltd., Easton, MD <u>Laboratory:</u>

BASF Corporation, Research Triangle Park, Sponsor:

147A-142 <u>Laboratory Report ID</u>:

DP Barcode: D245631 MRID No.: 444577-76

Mark A. Mossler, M.S., Toxicologist, REVIEWED BY:

Golder Associates Inc.

MilMula

Date: 7/1/98

Pim Kosalwat, Ph.D., Senior Scientist, APPROVED BY:

Golder Associates Inc.

signature: P. Kosalwat

Date: 7/1/98

5. APPROVED BY:

Joseph Sylvestin Signature:

Date: /0/23/98

STUDY PARAMETERS: 6.

> Definitive Test Duration: 120 hours Type of Concentrations: Mean measured

This study is scientifically sound and fulfills CONCLUSIONS: 7. the guideline requirements for an algal toxicity test. Exposure for 120 hours to a mean measured BAS 125 W concentration of 1.1 mg ai/L (representative of the aquatic concentration equivalent to the maximum labeled use rate of 1.67 lb ai/A) did not affect the growth or reproduction of S. capricornutum.

8. ADEQUACY OF THE STUDY:

A. Classification: Core

B. Rationale: N/A

C. Repairability: N/A

9. <u>GUIDELINE DEVIATIONS</u>: No deviations of consequence were noted.

10. SUBMISSION PURPOSE:

11. MATERIALS AND METHODS:

A. Test Organisms

Guideline Criteria	Reported Information
<u>Species</u> Skeletonema costatum Anabaena flos-aquae Selenastrum capricornutum Navicula pelliculosa	Selenastrum capricornutum
Initial Number of Cells 3,000 - 10,000 cells/mL	3,000 cells/mL
<u>Nutrients</u> Standard formula, e.g. 20XAAP	Freshwater algal medium

B. Test System

Guideline Criteria	Reported Information
<u>Solvent</u>	None
<u>Temperature</u> Skeletonema: 20°C Others: 24-25°C	24.8-25.6°C
Light Intensity Anabaena: 2.0 KLux (±15%) Others: 4.0-5.0 KLux (±15%)	3.7 - 4.5 KLux

Guideline Criteria	Reported Information
Photoperiod Skeletonema: 14 h light, 10 h dark or 16 h light, 8 h dark Others: Continuous	Continuous
<u>pH</u> Skeletonema: approx. 8.0 Others: approx. 7.5	Initial 7.3-7.4 Final 8.1-8.2

C. Test Design

Guideline Criteria	Reported Information	
<u>Dose range</u> 2X or 3X progression	N/A	
<u>Doses</u> at least 5	1.2 mg active ingredient (ai)/L	
Controls negative and/or solvent	Negative control	
Replicates per dose 3 or more	3	
<u>Duration of test</u> 120 hours	120 hours	
Daily observations were made?	Yes	
Method of Observations	Cellular counts	
Maximum Labeled Rate	1.67 lb ai/A	

12. REPORTED RESULTS:

Guideline Criteria	Reported Information
Initial and 120 h cell densities were measured?	Yes
Control cell count at 120 hr >2X initial count?	Yes
Initial chemical concentrations measured? (Optional)	Samples collected at study initiation and termination were analyzed by HPLC

Guideline Criteria	Reported Information
Raw data included?	Yes

Dose Response

Mean Measured Concentration (mg ai/L)	Avg. Cell Density (x 10° cells/mL)	% Inhibition*	120-Hour pH
Control	111	- <u>-</u>	8.1
1.1	135	-22	8.2

^{*}Negative value indicates stimulation.

Other Significant Results: None reported.

Statistical Method: No statistical analyses were performed. It was simply stated that BAS 125 W at a concentration of 1.1 mg ai/L inhibited the growth of S. capricornutum by -22%.

- 13. VERIFICATION OF STATISTICAL RESULTS: It is apparent from the cell density values that the 5-day growth and reproduction of S. capricornutum was not affected by BAS 125 W at a mean measured concentration of 1.1 mg ai/L.
- 14. REVIEWER'S COMMENTS: This study is scientifically sound and fulfills the guideline requirements for an algal toxicity test. Exposure for 120 hours to a mean measured BAS 125 W concentration of 1.1 mg ai/L did not affect the growth or reproduction of S. capricornutum. This study can be categorized as Core.

PROHEXACIONE Calcium

DER MRTD 444577-76.
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